

	Application No.	Applicant(s)	_
Notice of Allowability	10/805,078	FILIKOV, ANTON	
	Examiner	Art Unit	_
	Carol S. Tsai	2857	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commedites. This application is	n this application. If not included unication will be mailed in due course. THIS	Э
1. \boxtimes This communication is responsive to $3/6/2006$.	•		
2. The allowed claim(s) is/are <u>1-3</u> .			
 3. Acknowledgment is made of a claim for foreign priority unapprint and all b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Applicati	on No	
* Certified copies not received:	•		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Revie	w (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I			
Attachment(s)	F. □ Nation of I	nformal Patent Application (PTO-152)	
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413),	
	Paper No.	/Mail Date	
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 3/6/2006 	8), 7. Examiner's	Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's	Statement of Reasons for Allowance	
	9. 🗌 Other	<u>_</u> .	
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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on March 06, 2006 was filed after the mailing date of the Ex Parte Quayle Action on January 19, 2006. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Allowable Subject Matter

- 2. Claims 1-3 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:
- U. S. Patent No. 6,957,151 to Cheng et al. is the reference closest to the claimed invention. Cheng et al. disclose a method for solubility prediction comprising: selecting a first plurality of descriptors comprising identifiable compound properties and characteristics; forming a correlated descriptor subset from the first plurality of descriptors wherein the correlated descriptor subset comprises selected descriptors identified by correlation analysis; generating a solubility prediction function comprising selected descriptors from the correlated descriptor subset identified by statistical analysis of the correlated descriptor subset using a training data set; and applying the solubility prediction function to predict a compound's solubility on the basis of descriptor information for the compound. However, Cheng et al. do not teach a method of predicting solubility of a chemical compound comprising the steps of: a. identifying an electronically stored library of chemical molecules; b. building a computational model of a solid

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state of a molecule from said library by assembling a cluster of three or more copies of said molecule using a molecular mechanics method; c. computing energy, packing and interaction parameters from said model; d. computing other descriptors useful for predicting solubility of said molecule; e. repeating steps (b), (c) and (d) for every molecule from said library; f. building a solubility model using a quantitative method, which uses the parameters and descriptors computed in steps (c), (d) and (e); g. repeating steps (b), (c) and (d) for said compound; h. computing predicted solubility of said compound using said model and parameters and descriptors computed for said compound in steps (c), (d) and (e); and including all of the other limitations in the respective independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carol S. W. Tsai whose telephone number is (571) 272-2224. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc S. Hoff can be reached on (571) 272-2216. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 886-217-9197 (toll-free).

cswt May 5, 2006 Art Unit 2857

> CAROL S.W. TSAI PRIMARY EXAMINER

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